

Fig. 4

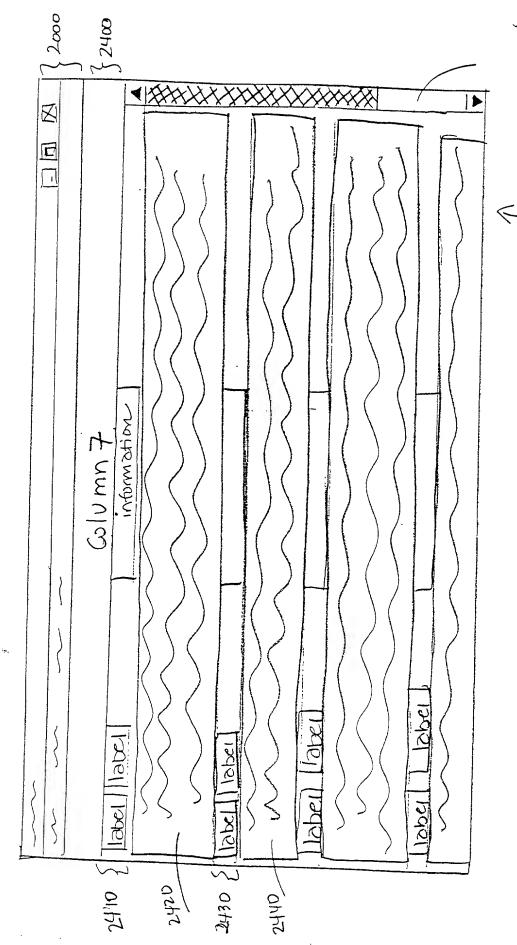


Figure 5

abhZ

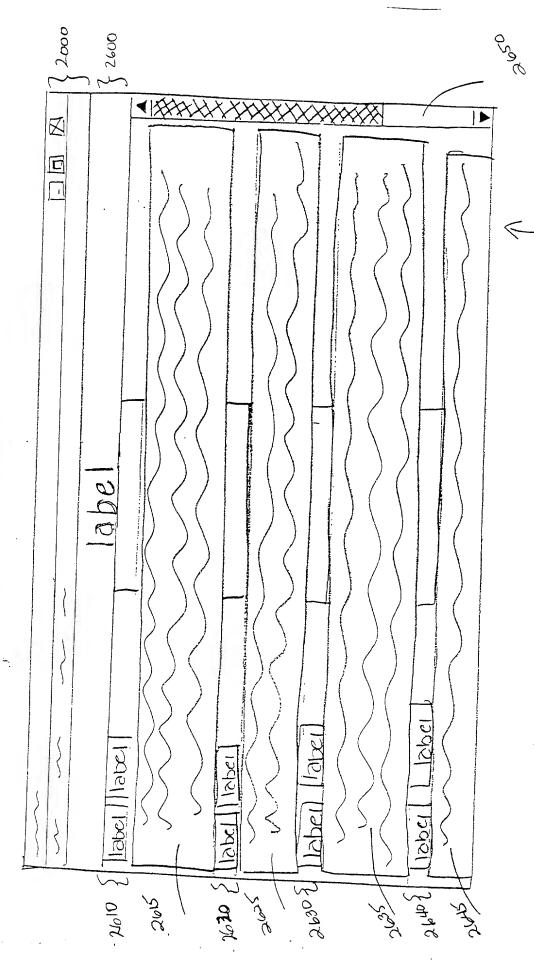
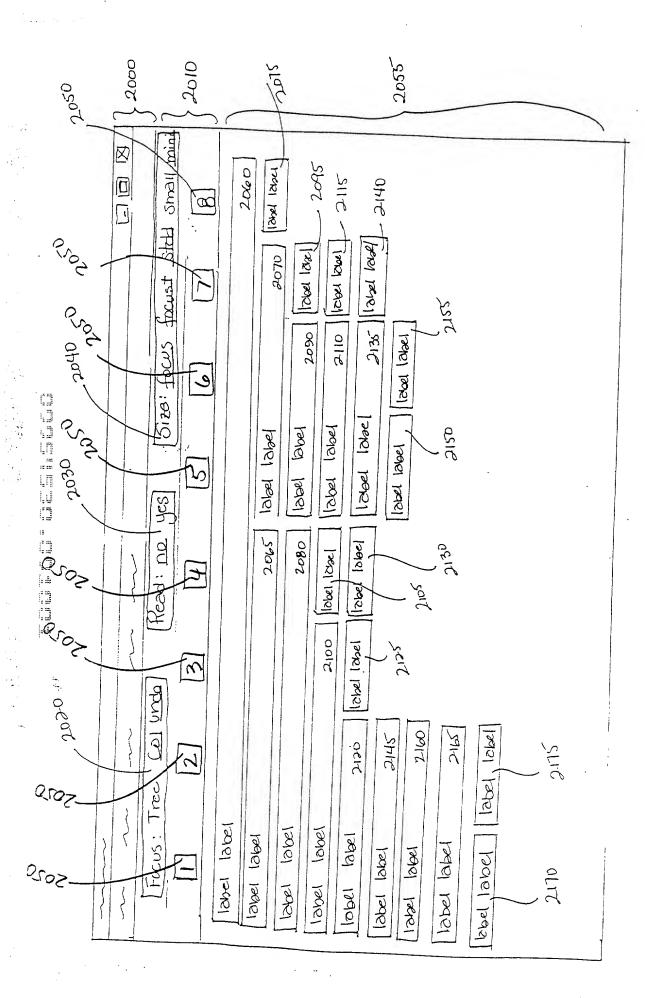
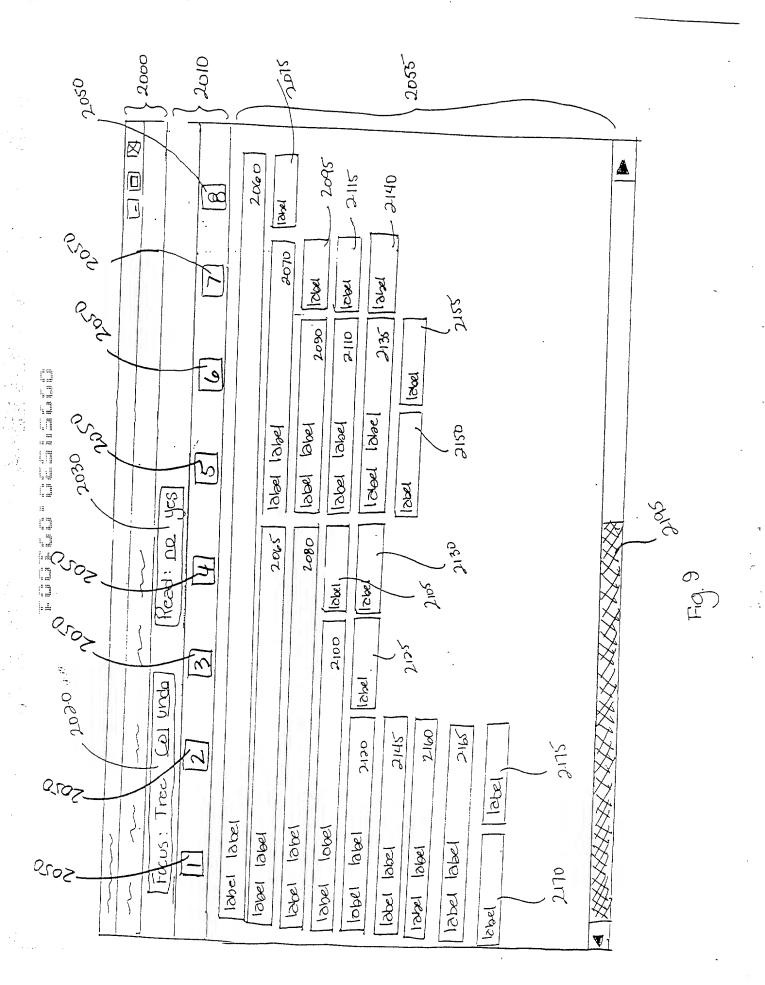


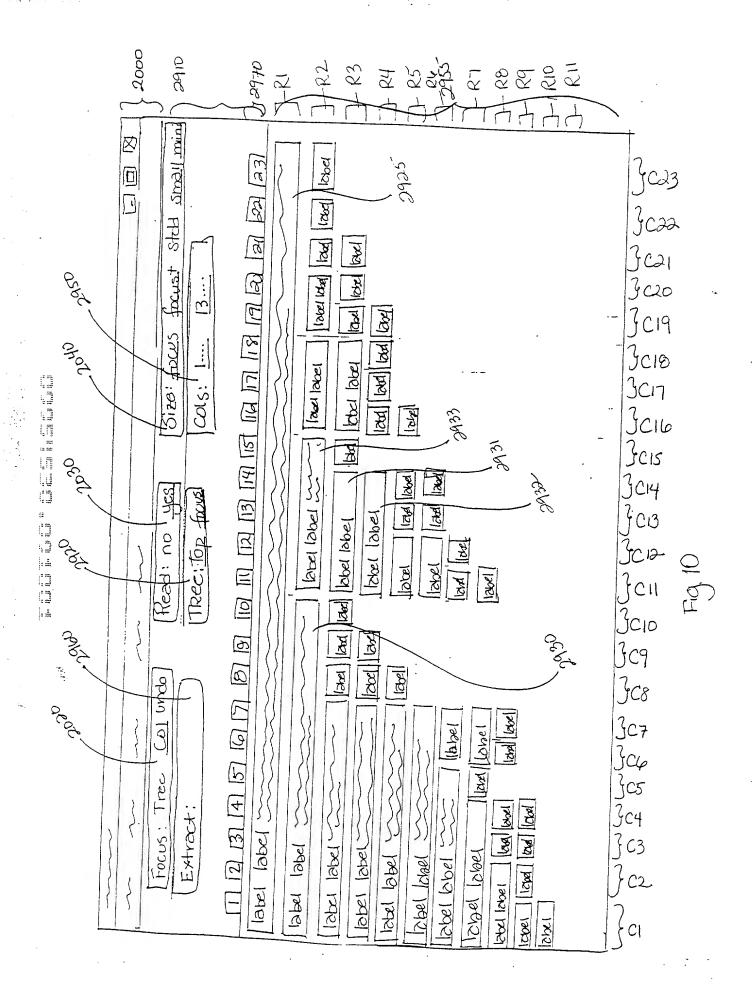
Figure 7

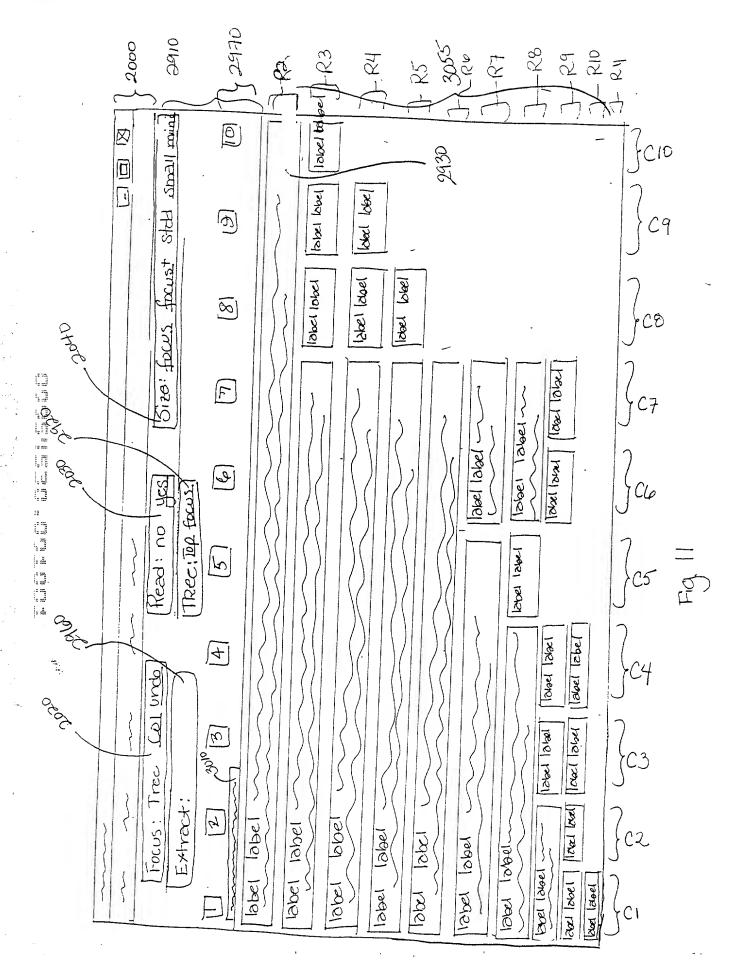
01921



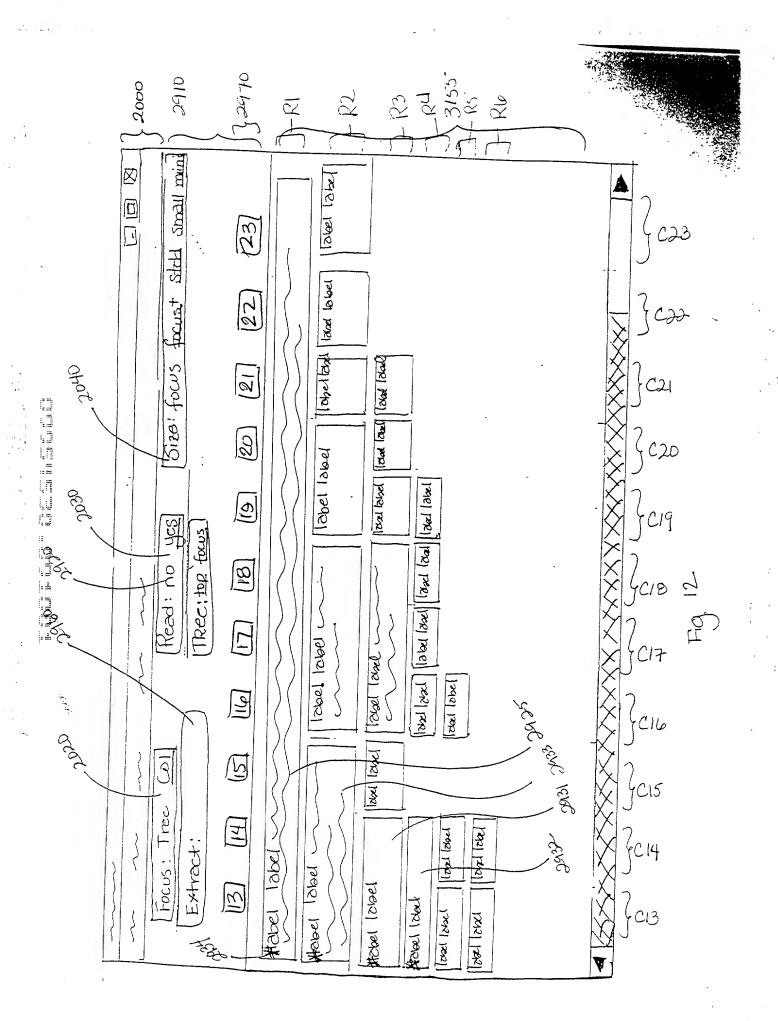
HQ Q

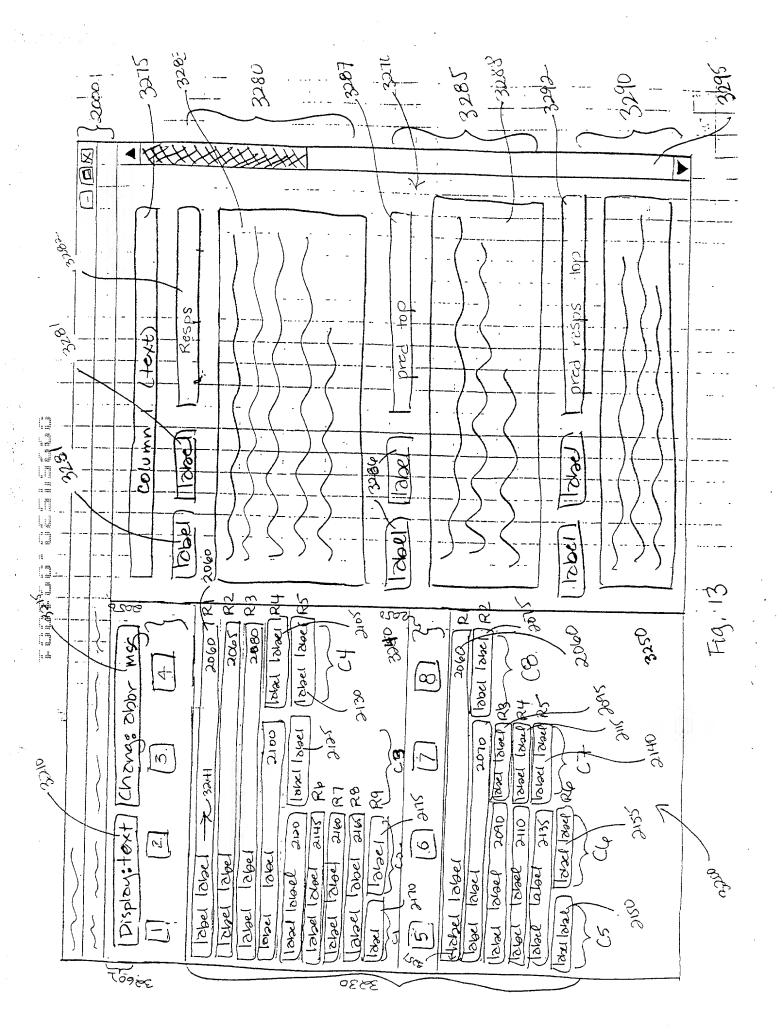






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Fig, 14

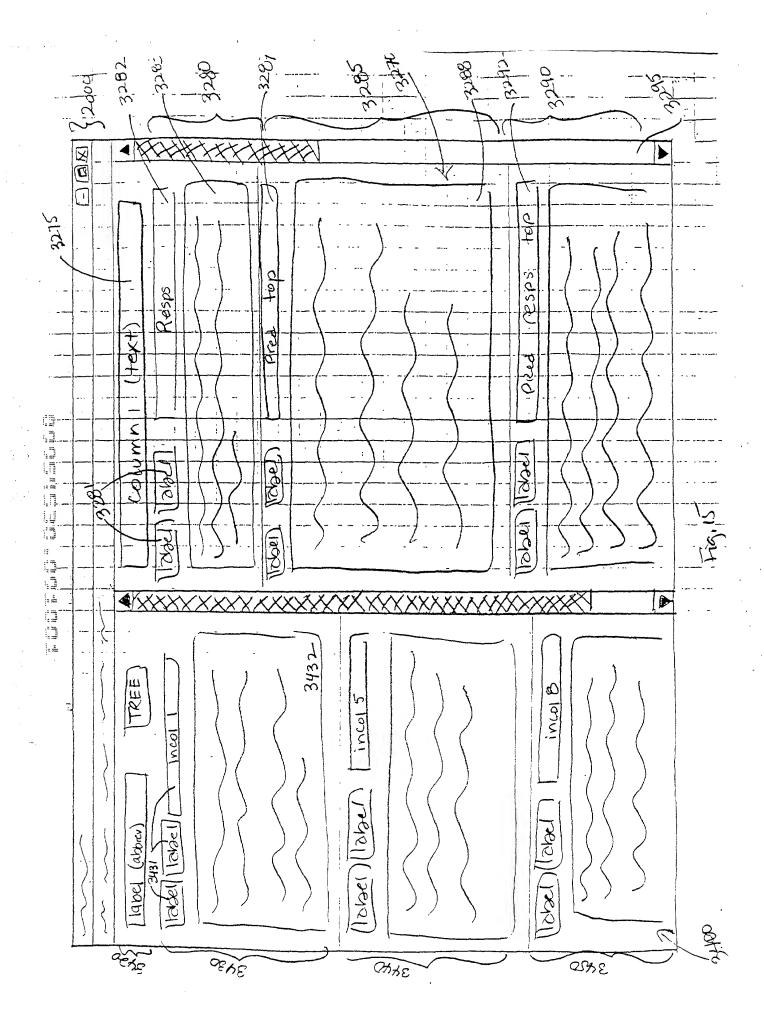


Figure 16. Major Processes

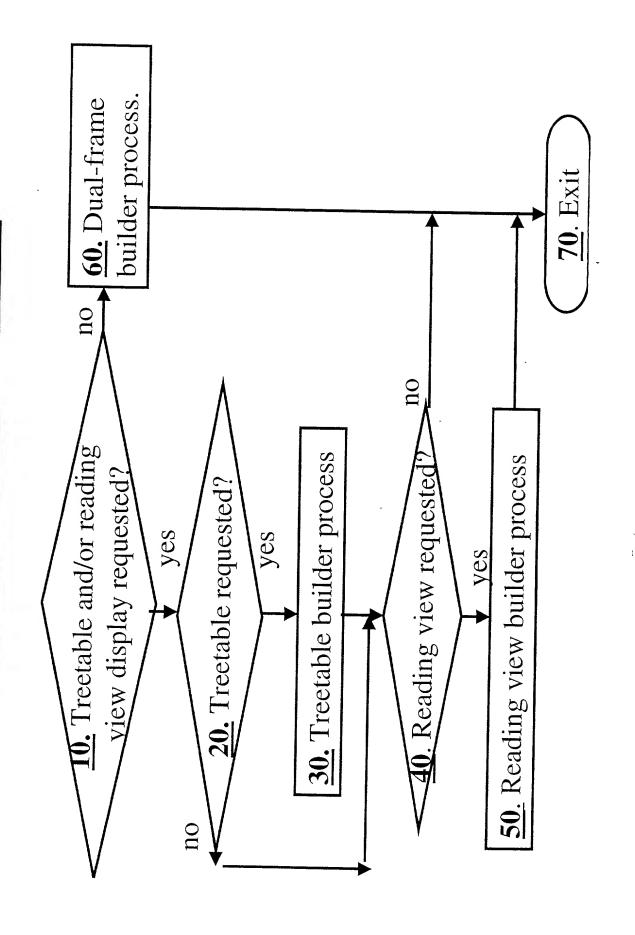
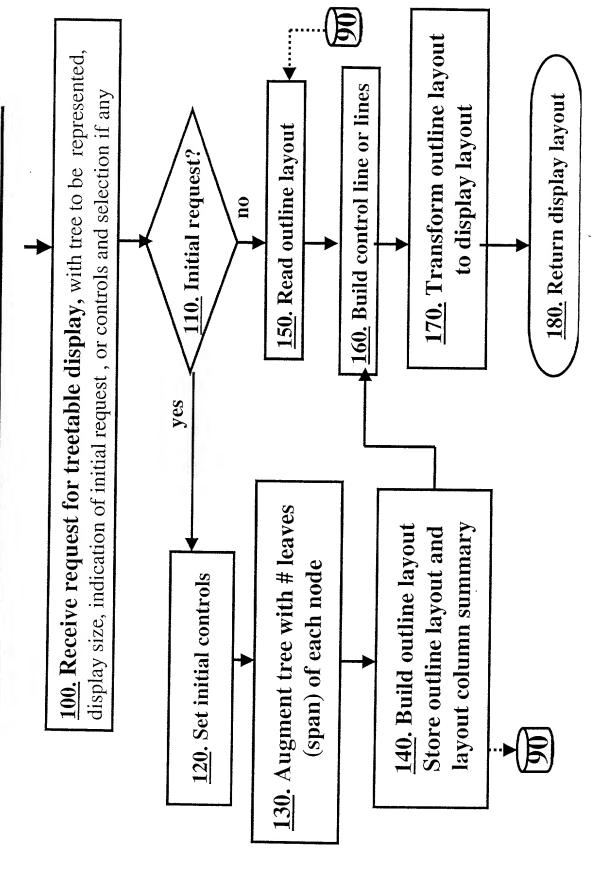
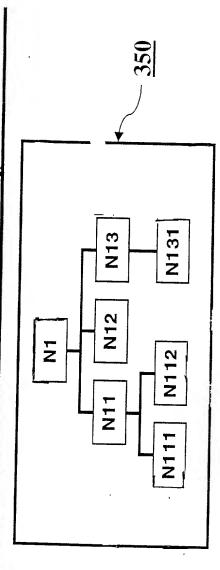


Figure 17. Treetable Builder Process



320. cnode = next child of node(brc) from rcol to (rcol + span(cnode) - 1). **290.** cnode = first child of node(brc) 310. More children of node(brc) 300. Add cell to row r for cnode $\overline{270}$. rcol < beginCol(brc)? 280. Add gap cell to row r from rcol to beginCol(brc). yes rcol = rcol + span(cnode). yes rcol = beginCol(brc). (215.exit) Figure 18: Build outline layout yes 110 from col 1 to span(root) Set br = 200. Add cell to row 1 for root, brc = first cell in br, r = br + 1, 220. Begin building row br + 230. node(brc) has children 210. br + 1 < tree height 240. More cells in br? 250. brc = next cell in br yes t yes no 260. br = rrcol = 1,

Figure 19: during outline layout build



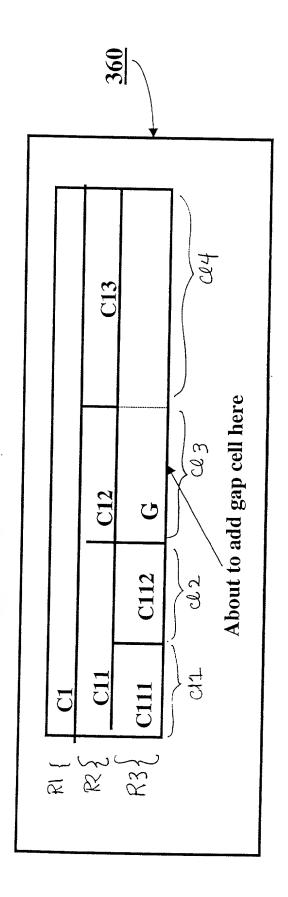


Figure 20: transform outline to display layout

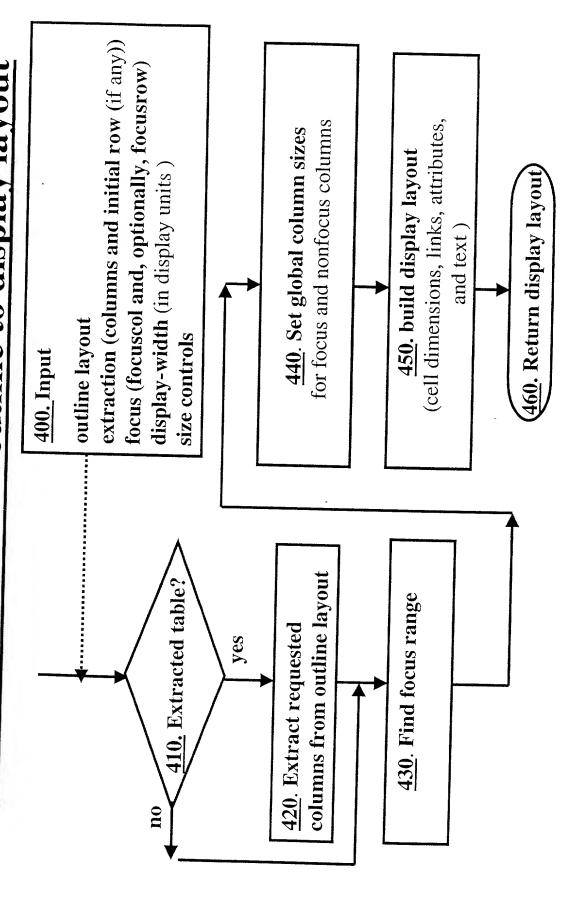
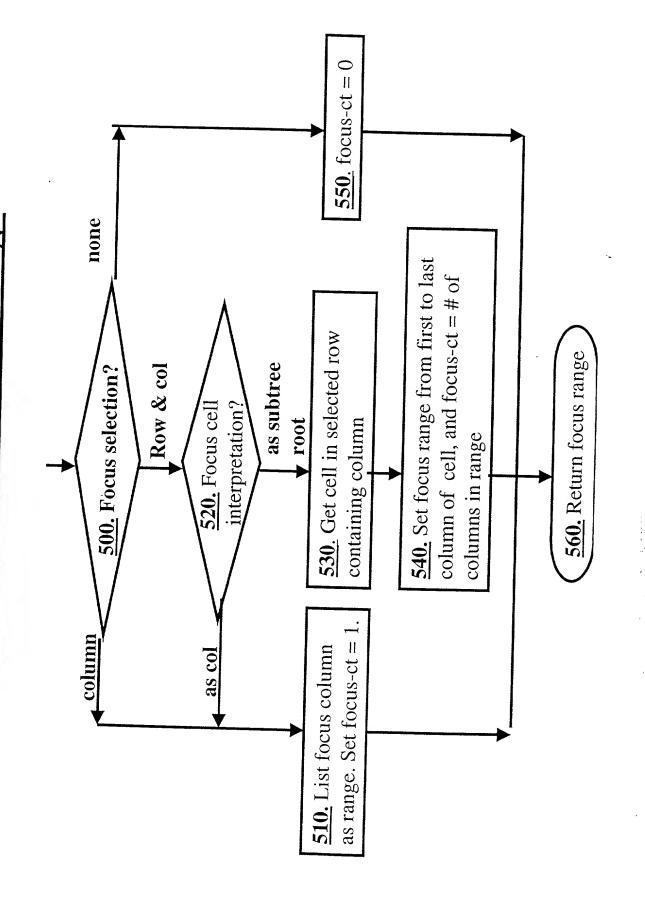
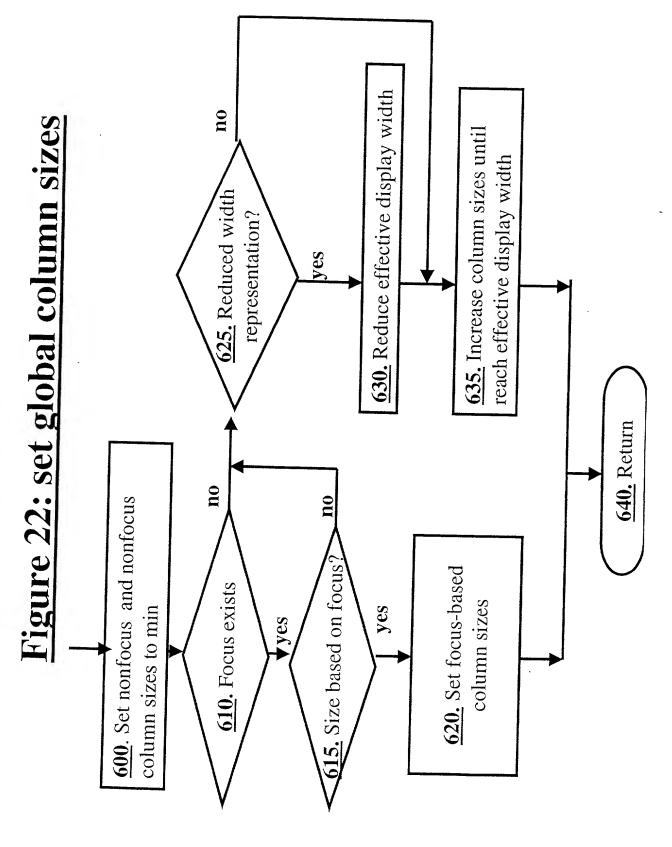


Figure 21: find focus range





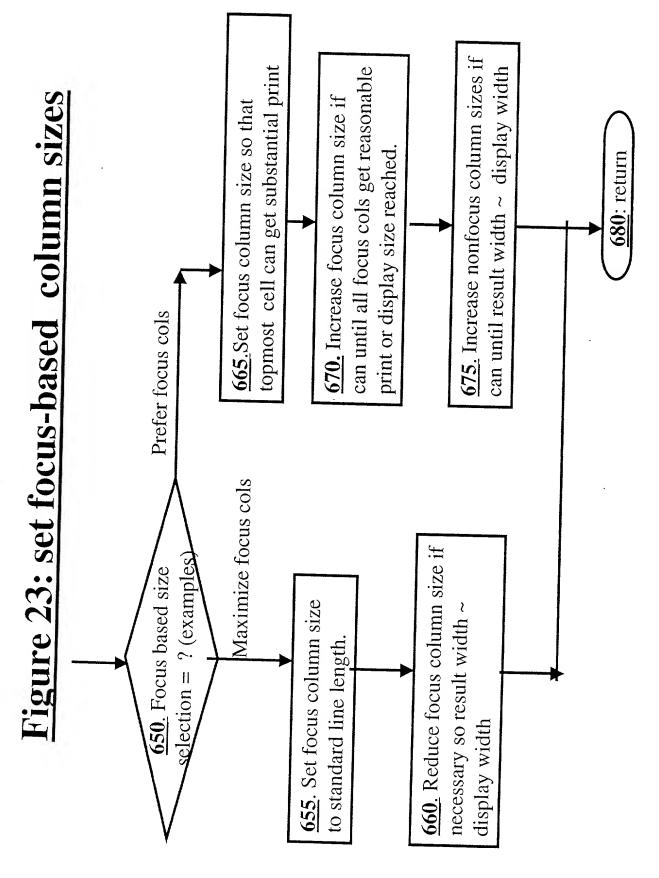
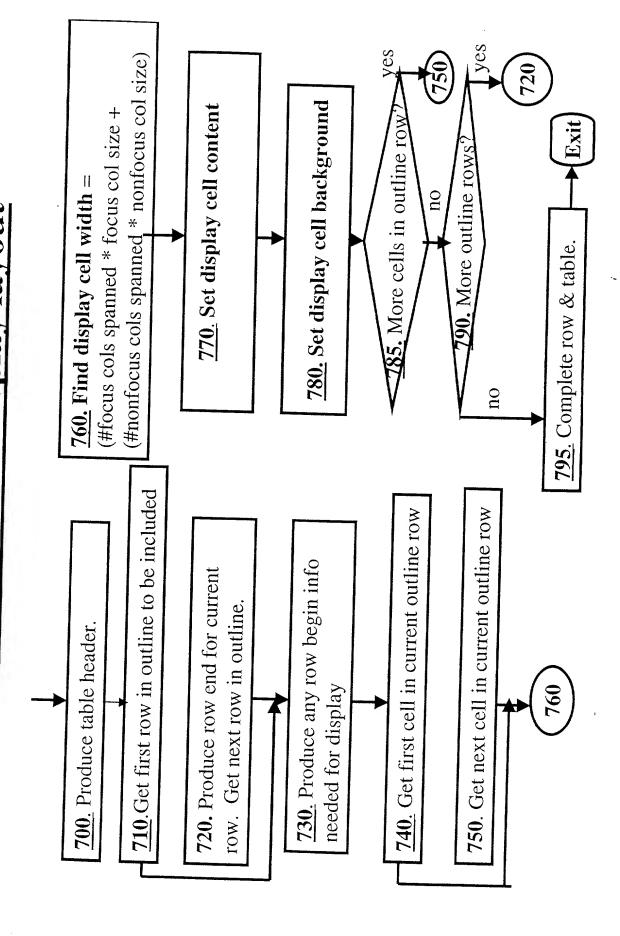


Figure 24: build display layout



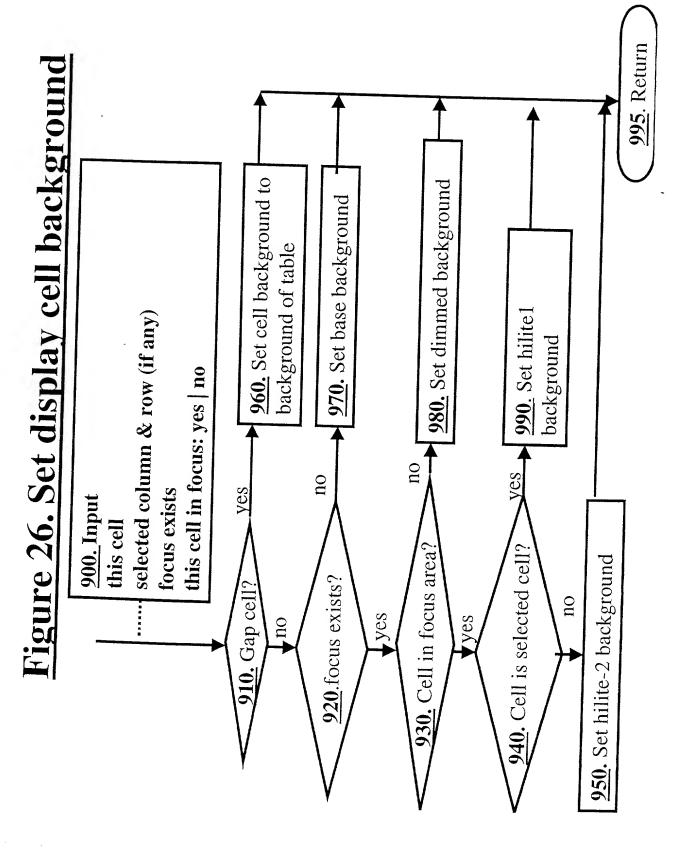


Figure 27. Dual frame builder process

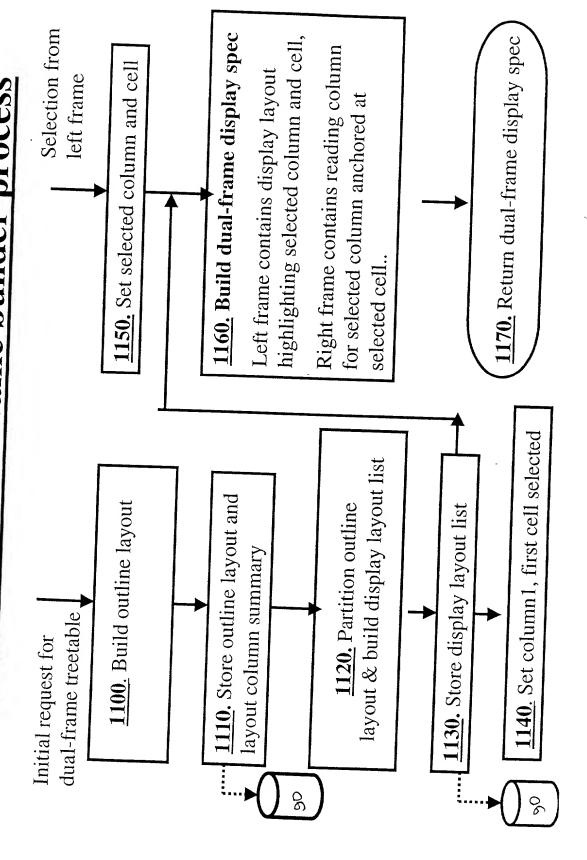
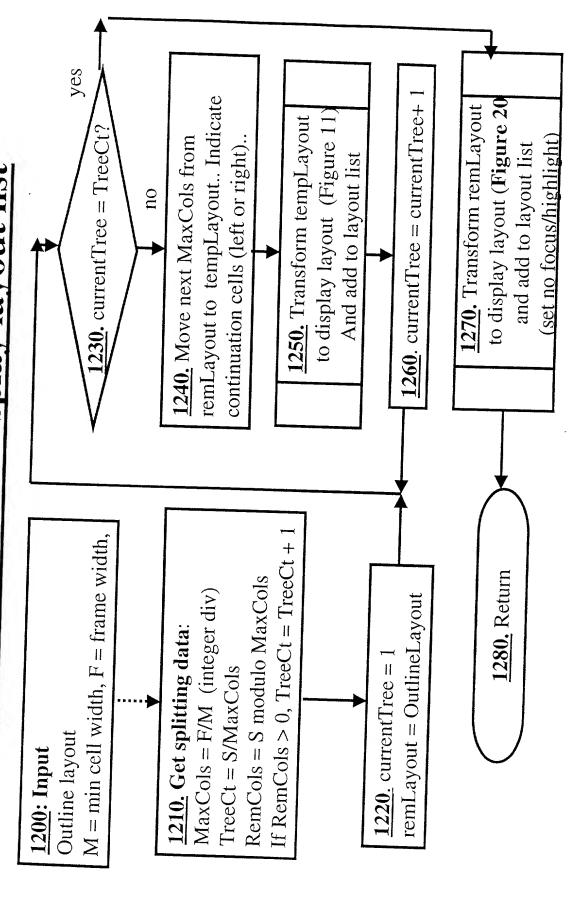


Figure 28: build display layout list



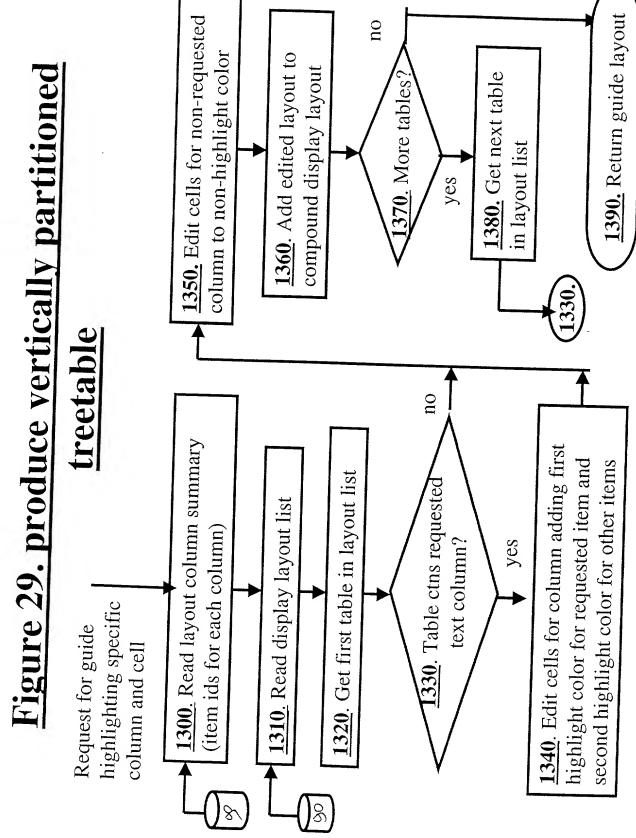


Figure 30. Reading View Builder Process

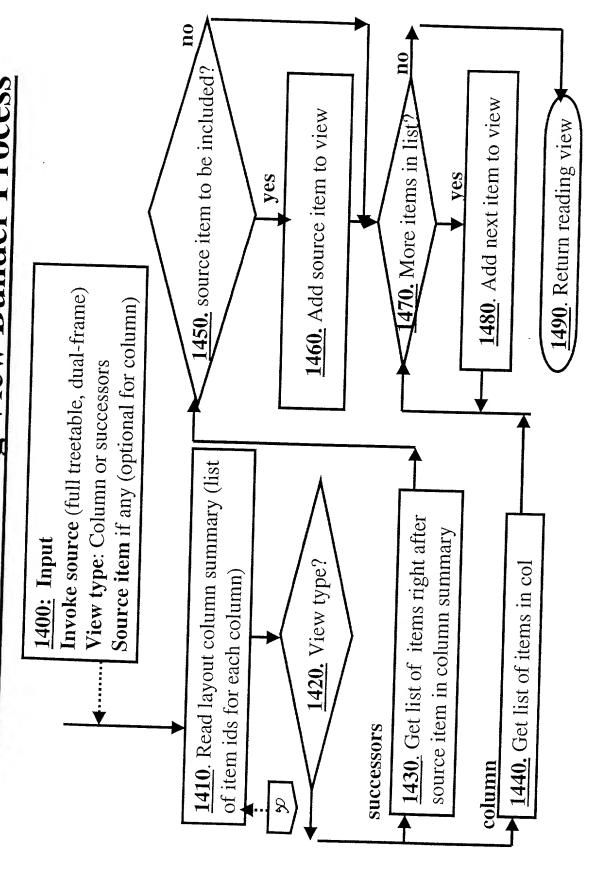


Figure 31. Add item to reading view

